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ADP File

25 April 1969

## MEMORANDUM FOR THE RECORD

SUBJECT: Meeting of the Automap Data Bank  
Study Group, 25 April 1969

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1. Present were [REDACTED]

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[REDACTED]. The previous minutes were reviewed and in the 5th sentence of the 2nd paragraph "type drive" was corrected to read "tape drive." The addition of the card reader and printer to the proposed configuration was questioned. The answer was given that these two pieces of peripheral equipment will make the 1130 computer an independent computer rather than just a terminal and controller for the CRT. Continuance of these devices beyond FY 1970 is the option of OBG. Attachment 1 is the latest proposed configuration.

25X1A9a 2. [REDACTED] stated that the 1130 computer would only be able to transmit 1800 coordinate points per minute in his new 22 byte format. At this rate the transferal of a typical million point file would take 10 hours. It is impractical, therefore, to send the entire line file through the 1130. Even if points were preselected by the 1130 for a particular map, it would take too long to send them to the large computer. Subsequently, we must abandon the idea of retaining the data bank at the graphics center and return it to the computer center. Here it can be on disk or tape and available on demand. The 2415 tape drive would still be needed to receive the plot tapes, input digitizer tapes, and update the data banks.

3. Formats were next discussed. The proposed data bank format would be as follows:

<u>Bytes</u>	<u>Item</u>
4	Control word (needed for binary records)
4	Line segment number
2	Rank/Classification
4	Latitude in radians
4	Longitude in radians
4	Sequence Number (needed for updating)
22	Total

This format would permit from 1 to  $2^{31}$  numerical characters for the line segment number and from 1 to  $2^{15}$  numerical characters for the rank/classification field. There will be only one format for all data banks. For

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GROUP 1  
Excluded from automatic  
downgrading and  
declassification

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updating there will be generated from the bank a special record with latitude and longitude expressed in geographic coordinates. The basic input format for each coordinate point would be as follows:

<u>Characters</u>	<u>Item</u>
1-6	Line Segment number*
7-10	X value
11-14	Y value
15-16	Rank/Classification

Five points would be recorded per record.

4. A study of the allocation of points on a continental area basis in Data Bank I was presented as follows:

<u>Continental Area</u>	<u>Coastline Points</u>	<u>Boundary Points</u>	<u>Total Points</u>	<u>Percent of Grand Total</u>
N. America	21,914	2,370	24,284	26.8
S. America	4,953	3,600	8,553	9.5
Europe	11,709	1,324	13,033	14.4
Africa	4,260	12,250	16,510	18.2
Asia	12,935	6,833	19,768	21.8
Australasia	6,299	177	6,476	7.2
Antarctica	1,904	None	1,904	2.1
Totals	63,974	26,554	90,528	100.0

Noteworthy is the predominance of North America due to the numerous Arctic and Caribbean islands and the linear extent of the African boundaries. Based on these findings and other recommendations, it is proposed to eventually divide Asia into three parts--the Soviet Union, the Near East and southern Asia west of Burma, and the Far East including Southeast Asia. Antarctica will be redundantly filed with South America, Africa, and Australasia. A map showing the divisions is attached (Attachment 2).

5. The original objective of the Study Group was to examine the present and planned state of the Automap Data Bank and recommend changes where necessary. Inevitably, as we comprehensively reviewed each facet, the study expanded to include the entire Automap System. Once the review was completed, proposals were made and discussed; and recommendations were made in the areas of data organization, storage, retrieval, and equipment. It is now time for those directly involved to implement those decisions. Once accomplished, the Study Group can consider the update and control problems. Until then, it will

\* Reserve 8 and 9 on first digit for error and end-of-file signals.

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not be necessary to convene the group.

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Attachments:

1. Proposed Configuration
2. Map

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